

28. (New) A process for the detection or diagnosis in vitro of brain disease involving PHF and abnormally phosphorylated tau protein, comprising the steps of:

(a) bringing a sample of brain homogenate, or of cerebrospinal fluid, or of serum from a patient suspected of suffering from a neurological disorder involving abnormally phosphorylated tau protein and PHF into contact with a monoclonal antibody according to claim 20, under conditions suitable for producing an antigen-antibody complex; and

(b) detecting the immunological binding of said antibody to said sample of brain homogenate, or cerebrospinal fluid, or serum.

29. (New) A kit for the in vitro diagnosis of one of the following diseases: Alzheimer's disease, Down's syndrome, Pick's disease, SSPE and other neurological disorders in which abnormally phosphorylated tau protein or paired helical filaments are implicated, the kit comprising:

(a) a first monoclonal antibody according to claim 20 deposited on a microplate;

(b) a second antibody recognizing a different epitope from said first monoclonal antibody which is a monoclonal antibody recognizing an epitope of normal tau, or of abnormally phosphorylated tau protein or which is a polyclonal antibody of normal tau, or of abnormally phosphorylated tau; and

(c) a marker for specific tagging or coupling with said second antibody; appropriate buffer solutions for carrying out the immunological reaction between said first monoclonal antibody and a test sample and the second antibody and the marker.

REMARKS

These new claims are generally patterned after the claims allowed in the parent case and are supported in the specification. No new matter has been added. Thus, it is believed that these claims are in condition for allowance. Notification to effect is earnestly solicited.

If the Examiner believes that a telephone conference will expedite prosecution of this application, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below.

Respectfully submitted,

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